

Faculty Profile

Faculty Name	Dr. Neelam Malik
Designation	Associate Professor
Qualification	M.Pharm, PhD
Email	Neelam.pharmacy@piet.co.in
Area of Interest	Medicinal Chemistry
Work Experience (Total)	7yrs and 6months
<ul style="list-style-type: none"> • Teaching 	7yrs 6months
<ul style="list-style-type: none"> • Research 	5yrs
<ul style="list-style-type: none"> • Industry 	NA
<ul style="list-style-type: none"> • Others 	
Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Post Graduate Diploma Level	B.Pharm, Pharm D, M.Pharm
Membership of Professional Bodies	IPA
Research Publications	23
<ul style="list-style-type: none"> • Research Papers UGC-CARE 	
<ul style="list-style-type: none"> • Research Papers SCOPUS 	
<ul style="list-style-type: none"> • Research Papers WoS/SCI/ABDC 	
<ul style="list-style-type: none"> • List of Publications 	<ul style="list-style-type: none"> ➤ Neelam Malik, Priyanka Dhiman, Prabhakar K. Verma, Anurag Khatkar. Design, synthesis, and biological evaluation of thiourea and guanidine derivatives of pyrimidine- 6-carboxylate. Res Chem Intermed DOI 10.1007/s11164-014-1871-7 (Impact factor – 1.88) ➤ Priyanka Dhiman, Neelam Malik, Prabhakar K. Verma, Anurag Khatkar .Synthesis and biological evaluation of thiazolo and imidazo <i>N</i>-(4-nitrophenyl)-7-methyl-5-aryl- pyrimidine-6 carboxamide derivatives. Res Chem Intermed DOI 10.1007/s11164-015-

1922-8(Impact factor -1.88)

- Usha Yadav, Priyanka Dhiman, **Neelam Malik**, Anurag Khatkar, Neelam Redhu, D.P. Singh. Genotoxic impurities - an overview. Journal of Biomedical and Pharmaceutical Research 2 (5) 2013, 39-47.
- Sarita Khatkar, Priyanka Dhiman, Sachin, **Neelam Malik**, Anurag Khatkar, Neelam Redhu, Biological and medicinal properties of azadirachta indica: a review, International Journal of Pharma Professional Research, April 2014, Vol-5, Issue -2 (Global impact factor 0.565)
- Amit Lather, Seema Goirala, Sarita Khatkar, Anurag Khatkar, Neelam Redhu, **Neelam Malik**. Plant Neurotoxicity- An Overview. International Journal of Pharmaceutical and Research Sciences. Vol. 2(8). 2013: 947-962.
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar, Neelam Redhu, D.P.Singh. Pyrazole derivatives: a worthy insight into potent biological activities: A Review. International Journal of Pharmaceutical Research and Bioscience. Vol. 2(4); 2013: 415- 427.
- Jyoti, **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar, Neelam Redhu. Pleiotropic Effects of Statins - An Overview. International Journal of Pharmaceutical and Research Sciences. Vol. 2(8). 2013: 925-936.
- Priyanka Dhiman , Anurag Khatkar , **Neelam Malik** , Neelam Redhu, Triazole derivatives: as potential pharmacological agents, International Journal of Pharma Professional Research, April 2013, Vol-

4, Issue -2 (Global impact factor 0.565)

- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar. In Silico and 3D QSAR Studies of Natural Based Derivatives as Xanthine Oxidase Inhibitors. Current topics in medicinal chemistry. 2019 Jan 1; 19(2): 123-38. **(Impact Factor: 3.374)**
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar. In-silico Design and ADMET Studies of Natural Compounds as Inhibitors of Xanthine Oxidase (XO) Enzyme. Current drug metabolism. 2017 Jun 1; 18(6):577-93. **(Impact Factor: 2.655)**
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar, Mahesh Kulharia. Antioxidant, xanthine oxidase and monoamine oxidase inhibitory potential of coumarins: a review. Current Organic Chemistry. 2017 Feb 1; 21(4): 294-304. **(Impact Factor: 2.193)**
- **Neelam Malik**, Priyanka Dhiman, Eduardo Sobarzo-Sanchez, Anurag Khatkar. Flavonoids and Anthranquinones as Xanthine Oxidase and Monoamine Oxidase Inhibitors: A New Approach Towards Inflammation and Oxidative Stress. Current Topics in Medicinal Chemistry. 2018 Oct 1; 18(25): 2154-64. **(Impact Factor: 3.374)**
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar. In silico design and synthesis of targeted rutin derivatives as xanthine oxidase inhibitors. BMC Chemistry. 2019 Dec; 13(1): 71. **(Impact Factor: 2.28)**
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar. Mechanistic approach towards interaction of newly synthesized Hesperidin derivatives against Xanthine Oxidase.

International Journal of Biological Macromolecules. 2019 Jun 1 (**Impact Factor: 6.953**)

- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar. *In silico* Design and Synthesis of Targeted Curcumin Derivatives as Xanthine Oxidase Inhibitors. Current drug targets. 2019 Apr 1; 20(5): 593-603. (**Impact Factor: 3.112**)
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar. *In silico* design and synthesis of hesperitin derivatives as new xanthine oxidase inhibitors. BMC Chemistry. 2019 Dec; 13(1): 53. (**Impact Factor: 2.28**)
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar. Computational analysis and synthesis of Syringic acid derivatives as xanthine oxidase inhibitors. Communicated: Medicinal Chemistry
- **Neelam Malik**, Priyanka Dhiman, Sobarzo-Sánchez E, Uriarte E, Khatkar A. Quercetin and related chromenone derivatives as monoamine oxidase inhibitors: Targeting neurological and mental disorders. Molecules. 2019 Jan;24(3):418. (**Impact Factor: 4.11**)
- **Neelam Malik**, Dhiman P, Khatkar A. 3D-QSAR and in-silico studies of natural products and related derivatives as monoamine oxidase inhibitors. Current neuropharmacology. 2018 Jul 1;16(6):881-900. (**Impact Factor: 7.363**)
- **Neelam Malik** Dhiman P, Khatkar A. Hybrid caffeic acid derivatives as monoamine oxidases inhibitors: synthesis, radical scavenging activity, molecular docking studies and in silico ADMET analysis. Chemistry Central Journal. 2018 Dec;12(1):1-7. **Impact**

	<p>Factor: 4.215)</p> <ul style="list-style-type: none"> ➤ Dhiman P, Malik N, Khatkar A. Docking-related survey on natural- product-based new monoamine oxidase inhibitors and their therapeutic potential. Combinatorial chemistry & high throughput screening. 2017 Jul 1;20(6):474-91. ➤ Dhiman P, Malik N, Khatkar A. Lead optimization for promising monoamine oxidase inhibitor from eugenol for the treatment of neurological disorder: Synthesis and in silico based study. BMC chemistry. 2019 Dec;13(1):1-20. ➤ Dhiman P, Malik N, Khatkar A. Natural based piperine derivatives as potent monoamine oxidase inhibitors: an in silico ADMET analysis and molecular docking studies. BMC chemistry. 2020 Dec;14(1):1-6
Book and Chapter Publications	
<ul style="list-style-type: none"> • Books Authored published by International Publishers 	<ul style="list-style-type: none"> ➤ Anurag Khatkar, Neelam Malik, Sarita Khatkar. Oxadiazole- A promising moiety for medicinal chemistry research. Lambert Academic Publisher Germany, 2013.
<ul style="list-style-type: none"> • Books Authored published by National Publishers 	
<ul style="list-style-type: none"> • Publication of Chapter in Edited Books 	<ul style="list-style-type: none"> ➤ Anurag Khatkar, Priyanka Dhiman, Sarita Khatkar. Pyrimidines- a moiety with diverse biological profile. Lambert Academic Publisher Germany, 2013. ➤ Anurag Khatkar, Priyanka Dhiman Synthetic and biological aspect of benzimidazoles . Lambert Academic Publisher; Germany, 2015 ➤ Neelam Malik, Priyanka Dhiman,

Vandna Chandel, Sachin Dhiman, Mukesh Kumar, Sarita Khatkar, Anurag Khatkar Oxadiazole- A Promising Moiety for Medicinal Chemistry Research Lambert Academic Publisher; Germany

- Mukesh Kumar, **Neelam Malik**, Vinit Mittal, Vandana Chandel, Anurag Khatkar Triazole derivatives as antifungal agents. (Eds) Triazoles- an attention causing moiety for medicinal chemists. Lambert Academic Publisher; Germany, 2014. pp. 6-18
- Mukesh Kumar, **Neelam Malik**, Vinit Mittal, Sachin Dhiman, Anurag Khatkar, Jyoti Mundlia. Triazole derivatives as Anti-inflammatory Agents. (Eds) Triazoles- an attention causing moiety for medicinal chemists. Lambert Academic Publisher; Germany, 2014. pp. 38-42
- Mukesh Kumar, **Neelam Malik**, Vinit Mittal, Sachin Dhiman, Anurag Khatkar, Jyoti Mundlia. Triazole derivatives as Anticonvulsant and Antitubercular Agents. (Eds) Triazoles- an attention causing moiety for medicinal chemists. Lambert Academic Publisher; Germany, 2014. pp. 48-57
- Navin kumar Dahiya, Rekha Rao, Sanju Nanda, Sarita Khatkar, **Neelam Malik**, Priyanka Dhiman, Applications of Niosomes in drug delivery Lambert Academic Publisher; Germany, 2013
- Priyanka Dhiman, **Neelam Malik**, Sumit Sigroha, Anurag Khatkar Benzimidazole and methods to synthesize its derivatives. (Eds), Synthetic and biological aspect of benzimidazoles . Lambert Academic Publisher; Germany, 2015. pp.1-9

	<ul style="list-style-type: none"> ➤ Priyanka Dhiman, Neelam Malik, Sumit Sigroha, Saloni Kakkar, Anurag Khatkar. Benimidazole derivatives as potential antimicrobial agents.(Eds) Synthetic and biological aspect of benzimidazoles. Lambert Academic Publisher; Germany, 2015. pp.10-30 ➤ Priyanka Dhiman, Neelam Malik, Amit Lather, Deepak Kaushik, Anurag Khatkar. Antihelminthic, analgesic and anti-inflammatory activity of benzimidazoles. (Eds)Synthetic and biological aspect of benzimidazoles . Lambert Academic Publisher; Germany, 2015. pp. 31-36 ➤ Priyanka Dhiman, Neelam Malik, Sarita Khatkar, Sachin Dhiman, Anurag Khatkar. Antidiabetic and Antimalarial activity of benimidazoles.(Eds) Synthetic and biological aspect of benzimidazoles . Lambert Academic Publisher; Germany, 2015. Pp. 37-40
<ul style="list-style-type: none"> • Editor of Book by International Publishers 	
<ul style="list-style-type: none"> • Editor of Book by National Publishers 	
<ul style="list-style-type: none"> • Translation Work of Book 	
<ul style="list-style-type: none"> • List of Book and Chapter Publications 	
Patents	NA
<ul style="list-style-type: none"> • Published 	
<ul style="list-style-type: none"> • List of published patent(s) 	
<ul style="list-style-type: none"> • Filed 	
<ul style="list-style-type: none"> • List of filed patent(s) 	
PhD Guidance	
<ul style="list-style-type: none"> • Degree Awarded 	
<ul style="list-style-type: none"> • Thesis Submitted 	

M.Tech. Guidance	
<ul style="list-style-type: none"> Degree Awarded 	
<ul style="list-style-type: none"> Thesis Submitted 	
Research Project	
<ul style="list-style-type: none"> List of Research project 	
Consultancy	
<ul style="list-style-type: none"> List of Consultancy 	
Awards & Honours	
<ul style="list-style-type: none"> List of Awards & Honours 	<ul style="list-style-type: none"> Best thesis award with silver Medal (PhD) Senior Research Fellowship from UGC Basic Scientific Research (BSR) (From Jan-2014- Jan-2019)
Invited lectures / Resource Person/ paper presentation in Seminars/ Conferences/full paper in Conference	
<ul style="list-style-type: none"> International (Abroad) 	
<ul style="list-style-type: none"> International (Within Country) 	<ul style="list-style-type: none"> Neelam Malik*, Priyanka Dhiman, Anurag Khatkar, Prabhakar K. Verma Natural Vs Synthetic Antioxidants 18Th Annual Convention of Society of Pharmacognosy on “Promotion and Globalisation of Indian Herbal Products- Perspectives and Prospects” On February 21-22, 2014. ISPPH-326
<ul style="list-style-type: none"> National 	<ul style="list-style-type: none"> Sachin Dhiman, Dr. Govind Singh, Raghav Goel, Mukesh kumar, Priyanka Dhiman, Neelam Malik. Role of free radicals in neurological disorder and importance of antioxidant in human health. A National Conference on “Current Perspectives in Pharmacovigilance and Drug Risk Management” November 21-23, 2013 Organized by MM College of Pharmacy

in Collaboration with MM Institute of Medical Sciences and Research

- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar, Therapeutic Effects of Xanthine Oxidase Inhibitors. National seminar cum workshop on Essentia of today and tomorrow: Including Advanced pharmaceutical skills with innovative approach Pharmazenith 2015 organised by Department of pharmaceutical sciences at Sardar bhagwan singh post graduate institute of biomedical sciences and research, dehradun
- **Neelam Malik**, Priyanka Dhiman, Anurag Khatkar Molecular Modelling Approach to Design New Antigout Agents from Natural Sources National conference on Therapeutic Potential of Natural Products: Current Innovations & Future Trends March 19, 2015, Department of genetics, M.D.University , Rohtak
- Priyanka Dhiman, **Neelam Malik**, Anurag Khatkar Molecular Modelling Approach of monoamine oxidase inhibitors for identifying new potential drugs: from natural sources. National conference on Therapeutic Potential of Natural Products: Current Innovations & Future Trends March 19, 2015, Department of genetics, M.D.University , Rohtak
- Priyanka Dhiman, **Neelam Malik**, Anurag Khatkar, Insights in to the Mechanisms of Action of the MAO inhibitors, National seminar cum workshop on Essentia of today and tomorrow: Including Advanced pharmaceutical skills with innovative approach Pharmazenith 2015 organised by Department of pharmaceutical sciences at Sardar bhagwan singh post graduate institute of biomedical sciences and research, dehradun Priyanka Dhiman, Sarita Khatkar, **Neelam Malik**,

	<p>Ritu Kataria, Sumit Sigroha, Anurag Khatkar, computer aided drug design (molecular modeling) methods in lead identification & optimization, APTI (Haryana State Branch) Sponsored National seminar on emerging trends in pharmaceutical education & research APRIL 1, 2015 at Hindu college of pharmacy, sonapat</p> <ul style="list-style-type: none"> • Neelam Malik*, Sarita Khatkar, Priyanka Dhiman, Ritu Kataria, Sumit Sigroha, Anurag Khatkar traditional medicinal plants for gout treatment: a promise for today and tomorrow. APTI (Haryana State Branch) Sponsored National seminar on emerging trends in pharmaceutical education & research APRIL 1, 2015 at Hindu college of pharmacy, sonapat • Shashi Sharma, Saloni Kakkar, Priyanka Dhiman, Neelam Malik, Anurag Khatkar. Docking studies on <i>p-coumaric</i> acid derivatives as anticancer agents. (20th National Conference cum Workshop Molecular Modeling and Drug Design Bioinformatics Infrastructure Facility, Centre for Bioinformatics Maharshi Dayanand University, Rohtak, 21st March, 2015) • Neelam Malik, Anurag Khatkar Screening and Design of new xanthine oxidase inhibitors by using molecular modelling software National conference on “ Impact of molecular biology on Drug Discovery and development promises and challenges 17-18 Feb, 2015 ,Central University of Rajasthan, Ajmer. • Priyanka Dhiman, Neelam Malik, Anurag Khatkar Synthesis and antimicrobial activity of 5-substituted 7-methyl-N-(4-nitrophenyl)-3,5-dihydro-2H-oxazolo[3,2-a]pyrimidine-6-carboxamide derivatives, UGC sponsored National Seminar on Recent Trends and Innovations in
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	<p>pharmaceutical Research (08 March) at Department of pharmaceutical sciences, M.D.University , Rohtak</p> <ul style="list-style-type: none"> • Neelam Malik*, Priyanka Dhiman, Anurag Khatkar, Evaluation of Antioxidant activity of Methyl 7-methyl-5-(substituted-phenyl)-3,5-dihydro-2H - oxazolo, [3,2-α]pyrimidine- 6-carboxylate derivatives, UGC sponsored National Seminar on Recent Trends and Innovations in pharmaceutical Research (08 March) at Department of pharmaceutical sciences, M.D.University , Rohtak • Neelam Malik, Anurag Khatkar. Computational Designing of New Monoamine Oxidase by using AutoDock Tools National conference on “Screening and design of new Xanthine oxidase inhibitors by using molecular modelling software” 17-18 Feb, 2015, Central University of Rajasthan, Ajmer. • Neelam Malik, Priyanka Dhiman, Anurag Khatkar. Molecular Modelling Approach to Design New Anti-gout Agents from Natural Sources National conference on “Therapeutic Potential of Natural Products: Current Innovations & Future Trends” March 19, 2015, Department of genetics, M.D. University , Rohtak. • Neelam Malik, Priyanka Dhiman, Anurag Khatkar. Therapeutic Effects of Xanthine Oxidase Inhibitors “National seminar cum workshop on Essentia of today and tomorrow: Including Advanced pharmaceutical skills with innovative approach Pharmazenith 26-27 March 2015 organised by Department of pharmaceutical sciences at Sardar bhagwan singh post graduate institute of biomedical sciences and research, Dehradun. • Malik N, Dhiman P, and Khatkar A. “Discovery of New Xanthine Oxidase inhibitors targeting Inflammation and
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	<p>Gout by <i>in-silico</i> Molecular Docking” in 5th Biennial Conference DDNPTM-2016 from 18 to 20 November, 2016 at National Institute of Pharmaceutical Education and Research (NIPER) SAS Nagar, Mohali, Punjab-160062.</p> <ul style="list-style-type: none"> • Neelam Malik, Priyanka Dhiman, Anurag Khatkar “Hesperidine and rutin biologically diverse plant constituent with great pharmacological profile” in National Seminar on “Biodiversity: Status and Significance” on March 21, 2017, organized by Department of Botany, M.D.University, Rohtak. • Neelam Malik, Priyanka Dhiman, Anurag Khatkar “ Syringic acid derivatives: <i>In silico</i> Design, synthesis and Xanthine oxidase inhibitory potential” in National Conference on “1st National Conference of Indian Science Congress Association – Rohtak chapter on “Science & Technology for Sustainable Development” (NCSTSD-2019) ” on 12-13 February, 2019 which is going to be held at the Department of Chemistry, Maharshi Dayanand University, Rohtak-124001, Haryana
<ul style="list-style-type: none"> • List of published papers 	Same as above
Organizing National Conference/ International Conference/ FDP/STTP	
<ul style="list-style-type: none"> • List of Conference/FDP/STTP committee 	
Social Contributions and Sports	
<ul style="list-style-type: none"> • List of Social Contributions and Sports 	<ul style="list-style-type: none"> • Participated in Inter Zonal Youth Festival from 30th November to 12th October, 2017, held at M. D. University, Rohtak. • Participated in 21th National Youth Festival from 12 to 16 January, 2017, held at Rohtak, Haryana.